

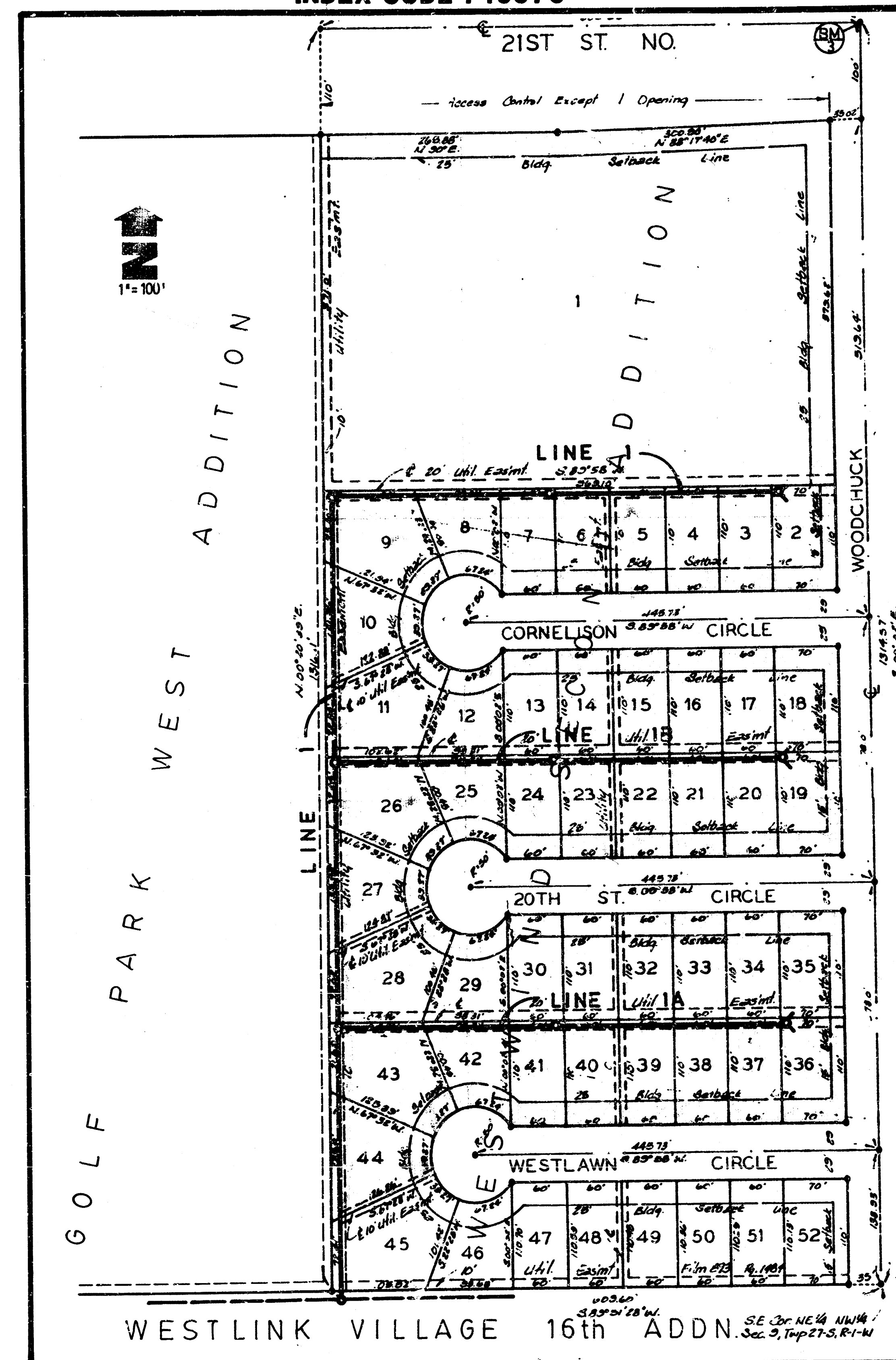
**SANITARY SEWER IMPROVEMENTS
FOR
LATERAL 5, MAIN 15, S.W. INTERCEPTOR**

LOTS 1 THROUGH 44, INCLUSIVE, WESTWIND SECOND ADDITION

PROJECT NO. 468-76-245-81815-000-000-001
INDEX CODE 740076

GENERAL NOTES

- Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.



☐ BENEFIT DISTRICT

CITY of WICHITA, KANSAS
MICHAEL E. LINDEBAK
CITY ENGINEER

INDEX of SHEETS

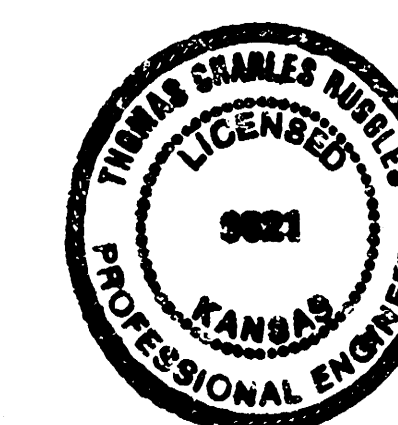
- TITLE SHEET
- PLAN/PROFILE LINE - 1
- PLAN/PROFILE LINE-1A
- PLAN/PROFILE LINE-1B
- MANHOLE DETAIL SHEET
- PLAT COPY

BENCHMARKS

- R.R. Spike in "lone" tree (NE-ly side) 193 ft. S., 47 ft. W., NE Cor. Lot 15, Blk. 2 Westlink Vill. 16th Addn. Elev. = 157.75 City datum
- "d" Cut SW. Cor. of catch basin, E. End of NE Return of 19TH ST. at Woodchuck. Elev. = 155.11 City datum
- Top of Iron in Thimble NE Cor. NW1/4, Sec. 9, T-27S, R-1W. (Intersection 21st ST. at Woodchuck.) Elev. = 162.70 City datum

BUILT PER PLAN
RPL
2-90

Rev. 3/11/89 - stubs: Errors Added
JULY 7, 1989



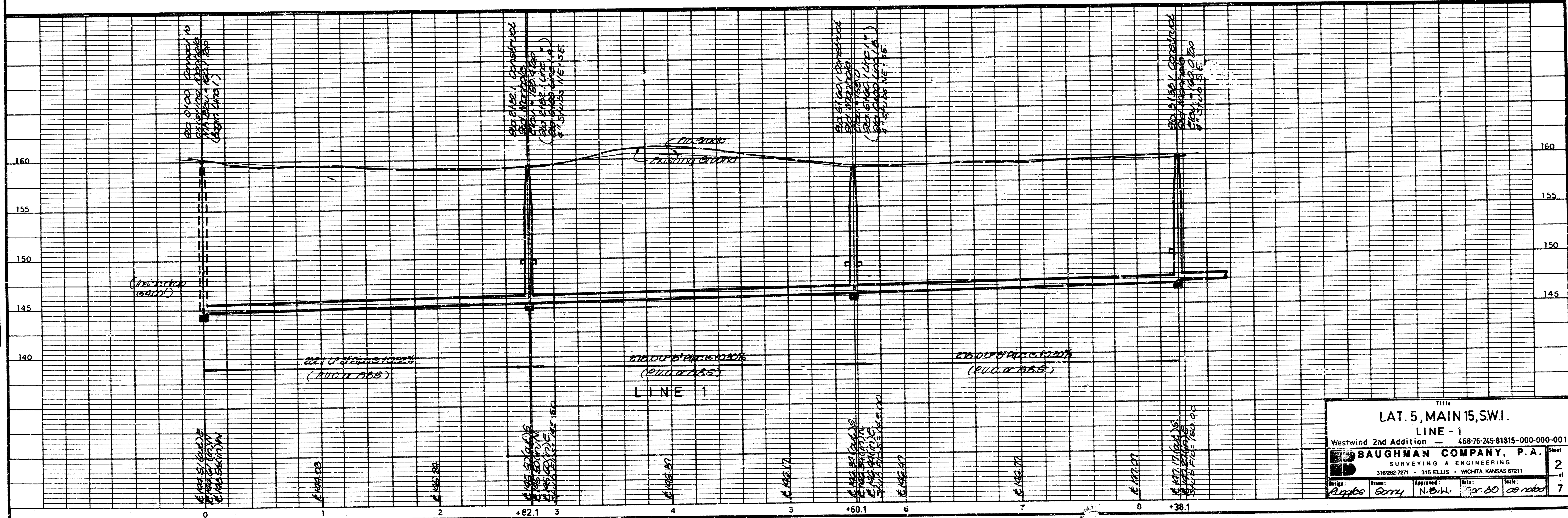
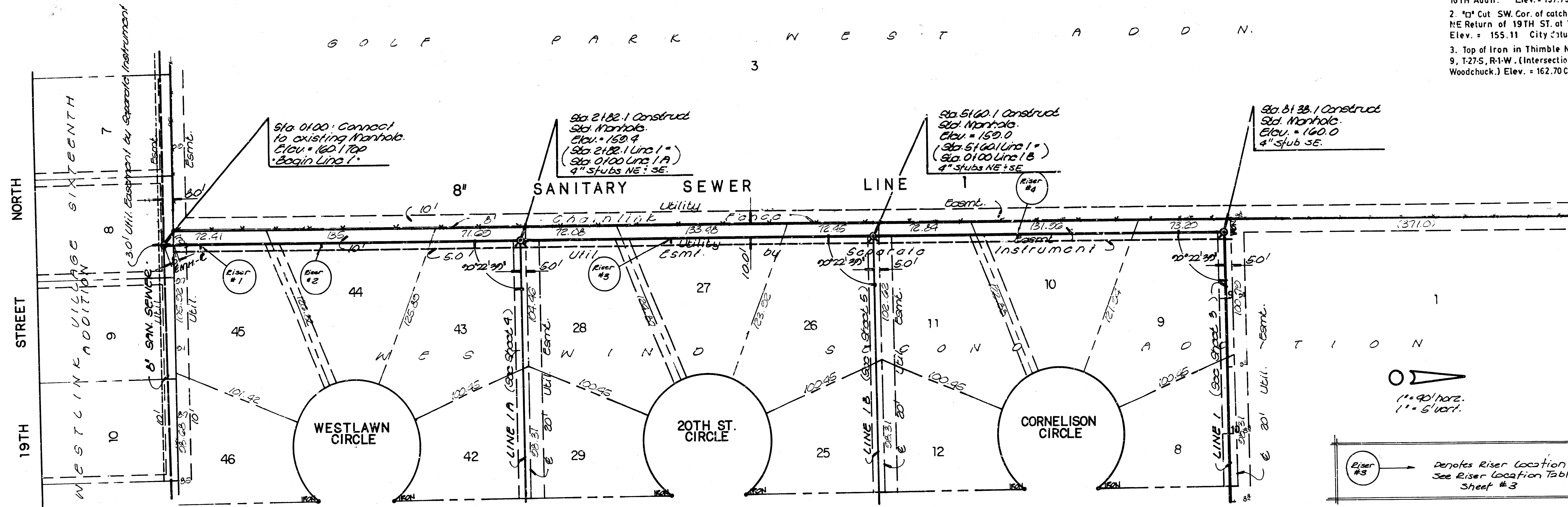
TITLE SHEET

BAUCHMAN COMPANY, P.A.				
SURVEYING & ENGINEERING				
310282-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
Drawn by: Ruggles	Checked by: Sonny	Approved by: [Signature]	Date: Apr. 89	Scale: as noted
				Sheet: 1 of 7

**FILMED FROM THE BEST
AVAILABLE COPY...**

PLAN	SURVEYED NOTE BOOK BY: A. J. NORT	DATE	BY	NO.

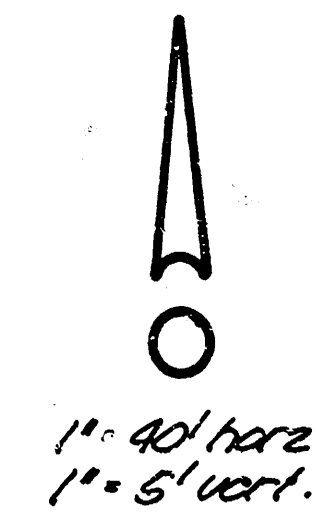
PROFILE	SURVEYED NOTE BOOK BY: A. J. NORT	DATE	BY	NO.



LAT. 5, MAIN 15, SW. I.		LINE - 1	
Westwind 2nd Addition		458-76-245-81815-000-000-001	
BAUGHMAN COMPANY, P.A.		SURVEYING & ENGINEERING	
310282-7271		315 ELLIS - WICHITA, KANSAS 67211	
Design: R. J. B.	Drawn: B. J. B.	Approved: N. J. B.	Date: Jan. 80
Scale: as noted		Sheet 2 of 7	

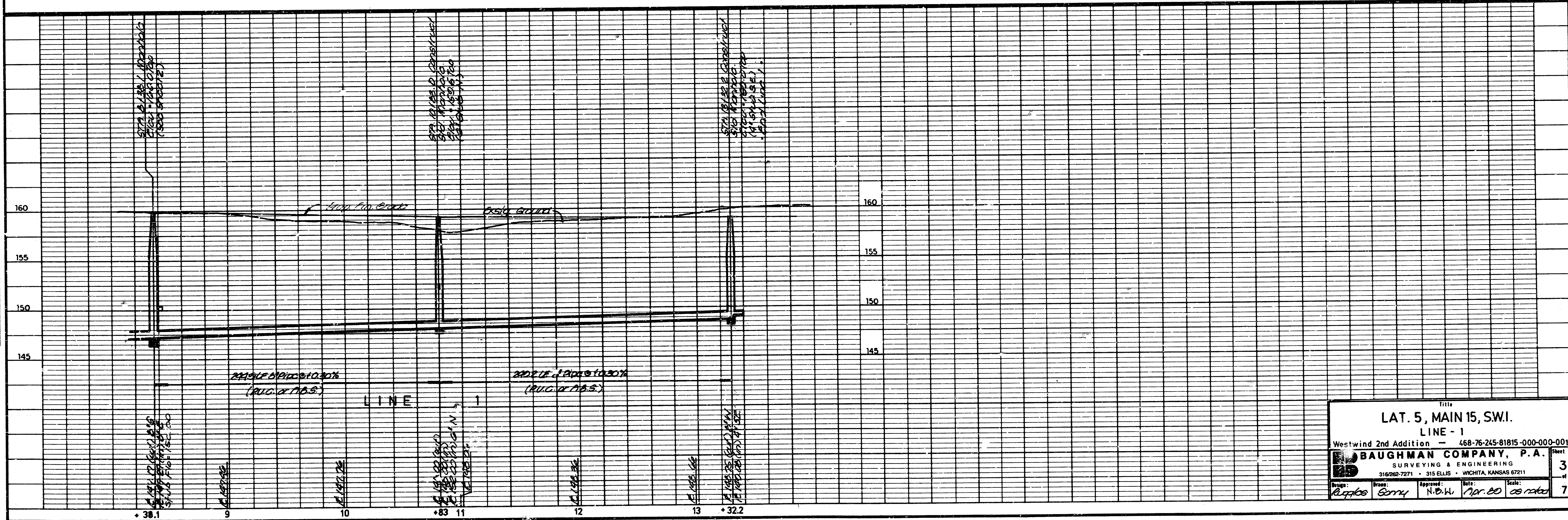
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No.	PROFILE	NOTE BOOK	SURVEYED	PLOTTED	GRADES CHECKED	B. M.'s NOTED	BY	DATE



-  **BENCHMARKS**
1. R.R. Spike in "lone" tree (NE-ly side) 193 ft.
S, 47 ft. W., NE Cor. Lot 15, Blk. 2 Westlink Vill.
16TH Ind. Elev. = 157.75 City datum
2. *a* Cut SW. Cor. of catch basin, E. End of
NE Return of 19TH St. at Woodchuck.
Elev. = 135.11 City datum
3. Top of Iron in Thimble NE Cor. NW1/4, Sec.
9, T-27-S, R-1-W. (Intersection 21ST St. at
Woodchuck.) Elev. = 162.70 City datum

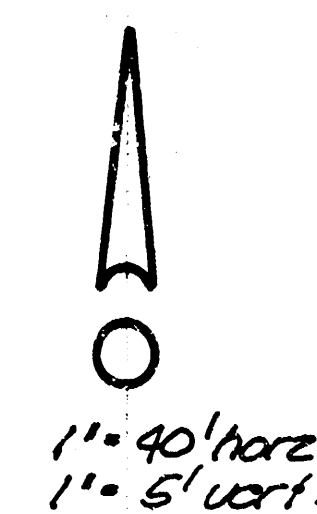
Number	Line No.	Sfa.	CoF	Direction	L.F. 4" Riser	Top.
1	1	0130	45	2L	5	131.21
2	1	1125	44	2L	4	130.51
3	1	1100	67	2L	4	131.5
4	1	0135	47	2L	2.5	130.69
5	1A	1120	20	2L	2.5	144.96
6	1A	1130	42	2L	2.5	144.99



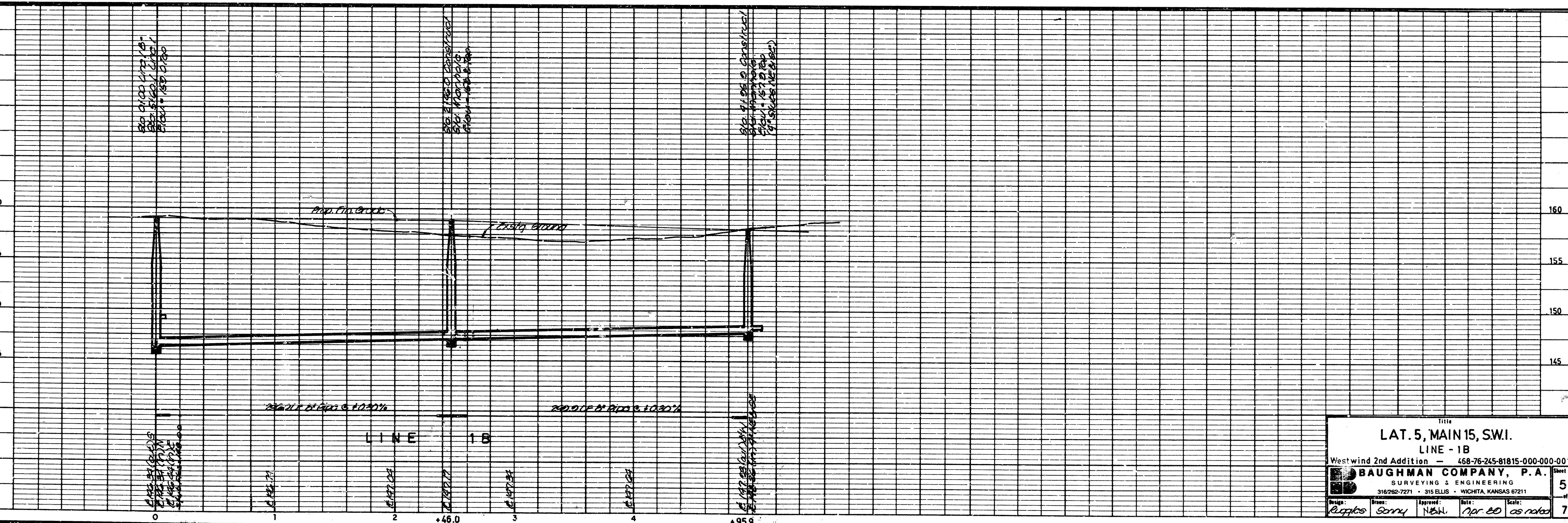
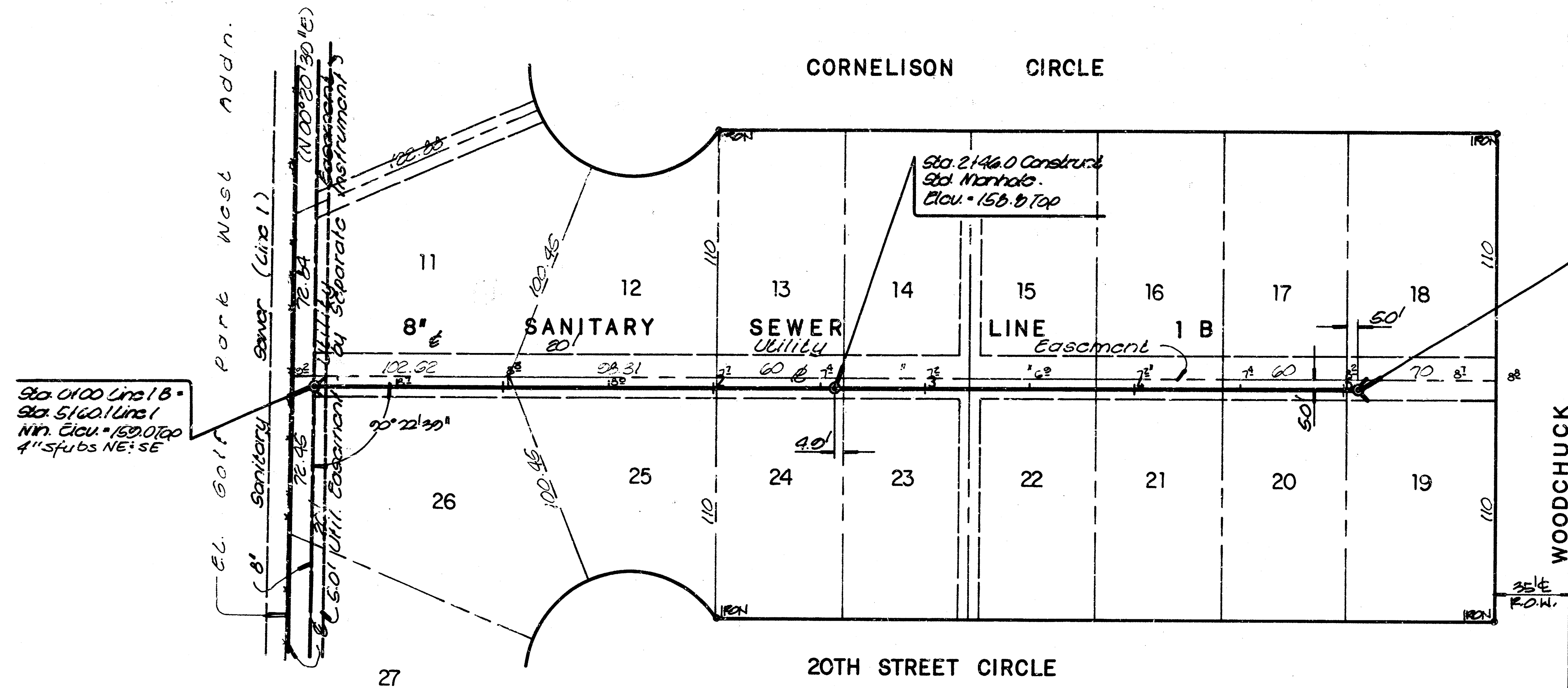
Title					
LAT. 5, MAIN 15, SWI.					
LINE - 1					
Westwind 2nd Addition — 468-76-245-81815-000-000-001					
 BAUGHMAN COMPANY, P.A. SURVEYING & ENGINEERING 318/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					Sheet
Drawn:	By:	Approved:	Date:	Scale:	
<i>Explos</i>	<i>Gerry</i>	<i>N.B.W.</i>	<i>Apr. 20</i>	<i>as noted</i>	7

BENCHMARKS

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3. Top of Iron in Thimble NE Cor. NW 1/4, Sec. 9, T-27S, R-1W. (Intersection 21st ST. at Woodchuck.) Elev. = 162.70 City datum



1" = 40' horiz.
1" = 5' vert.

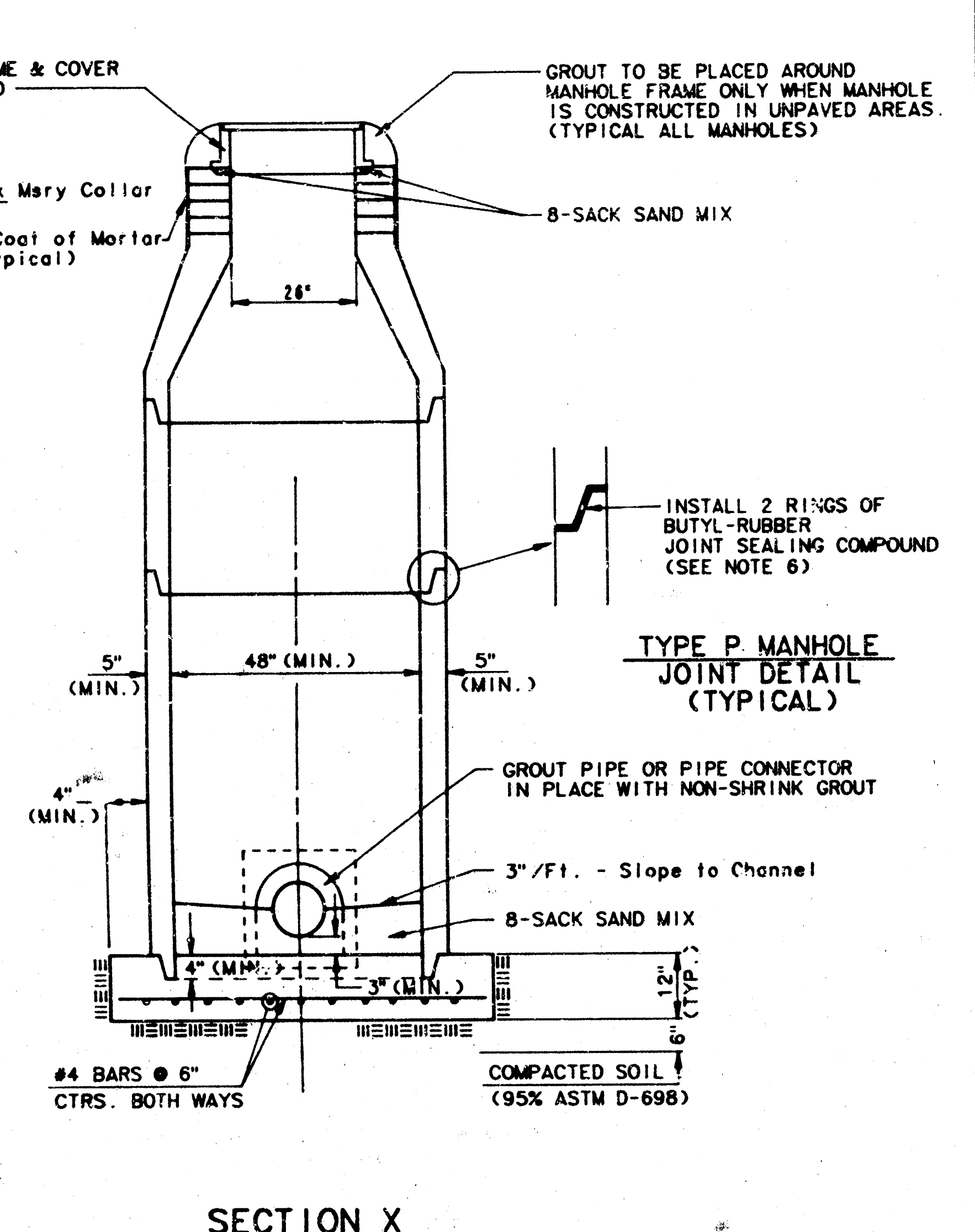
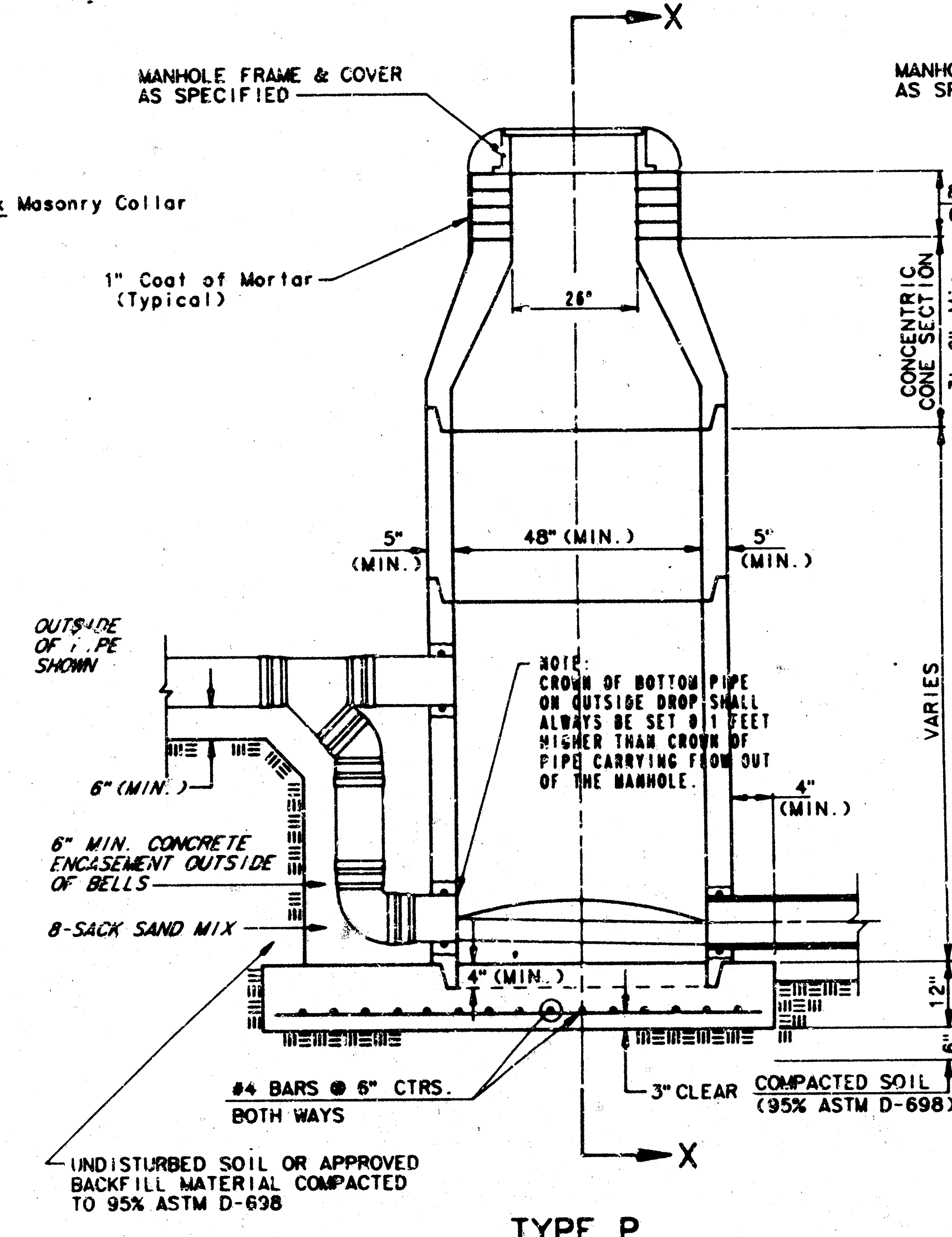
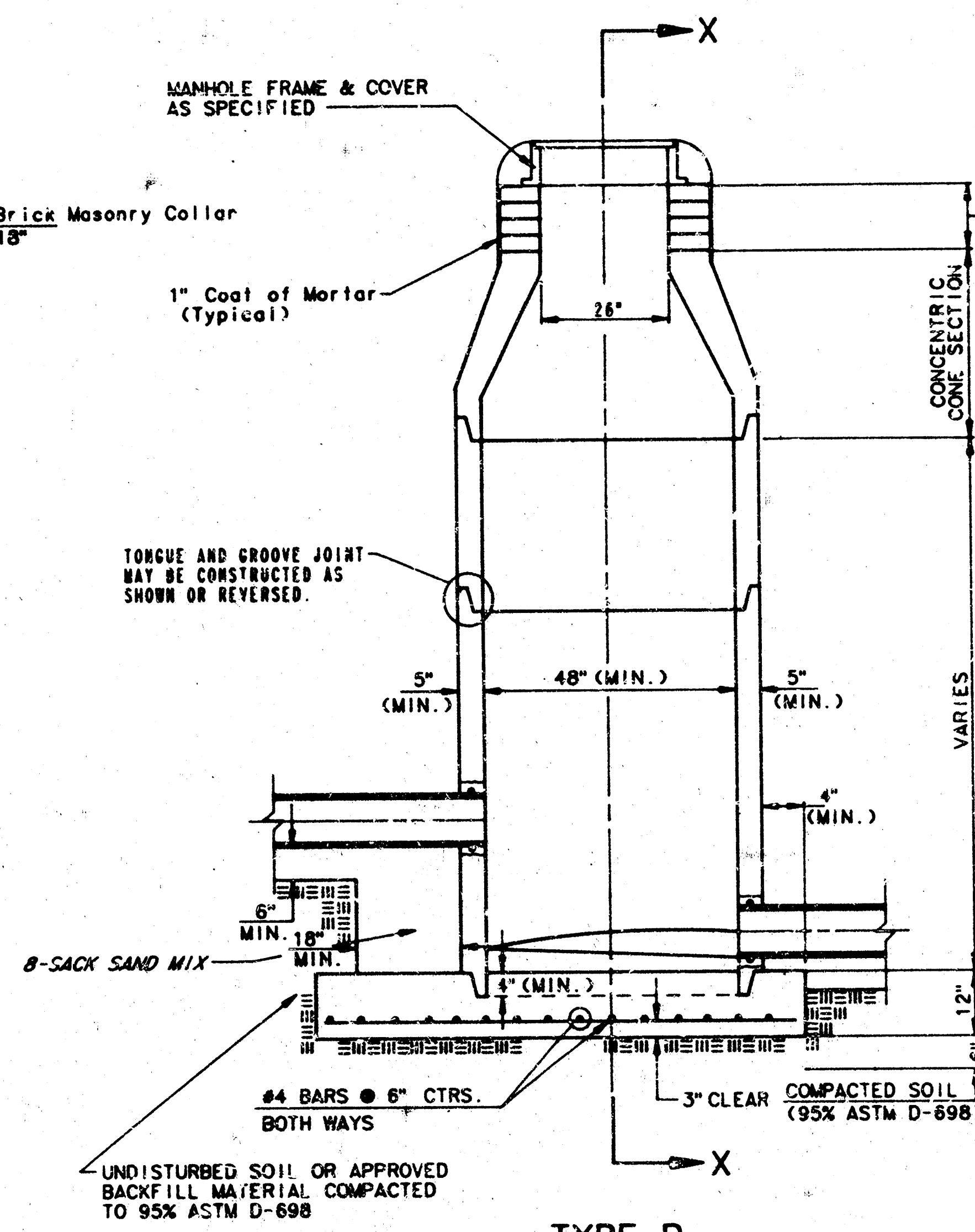
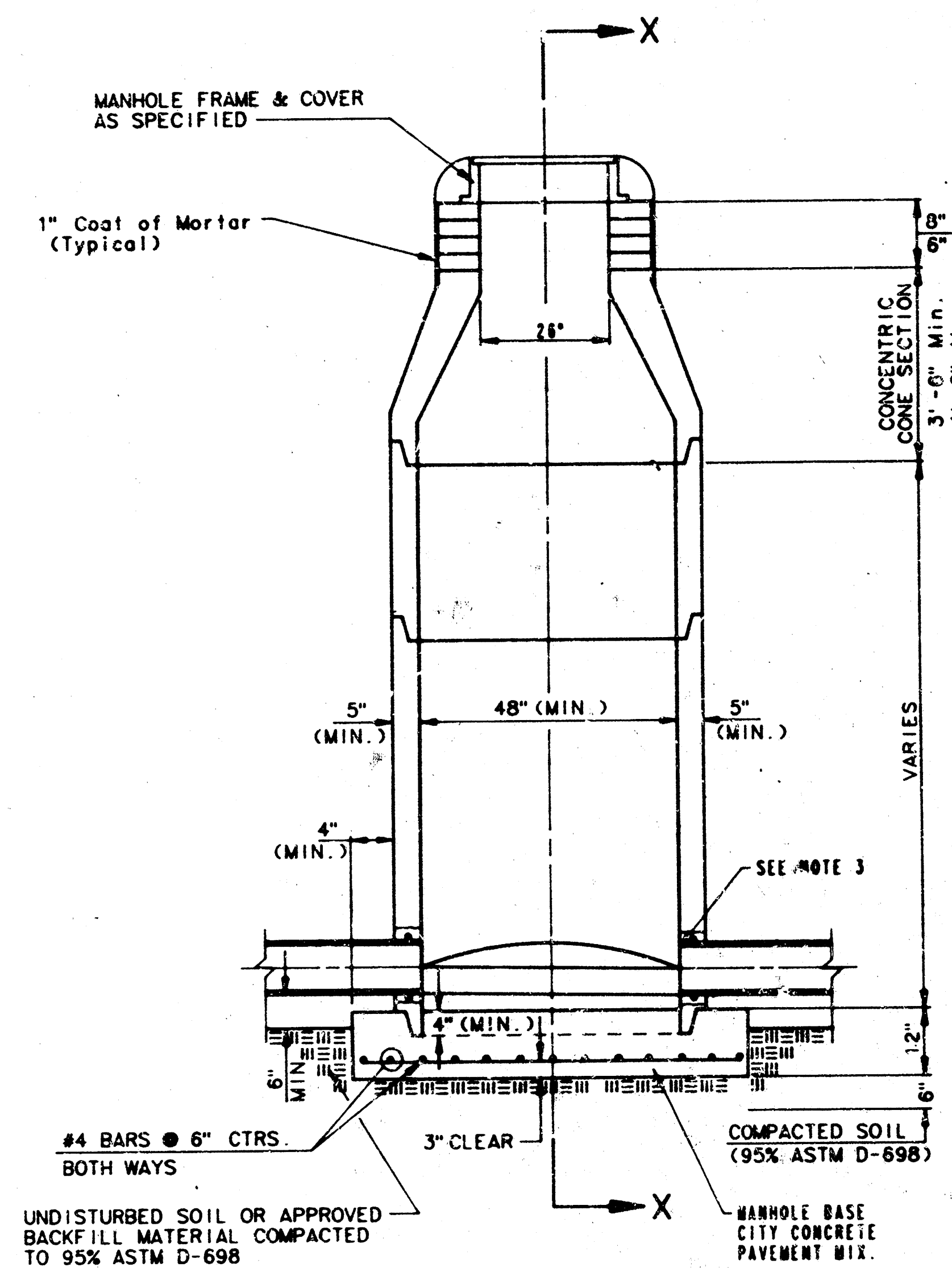


LAT. 5, MAIN 15, SW. I.
LINE - 1B

Westwind 2nd Addition - 468-76-245-81815-000-000-001	
BAUGHMAN COMPANY, P.A.	
SURVEYING & ENGINEERING	
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	
Design: <i>Reggie</i>	Drawn: <i>Sony</i>
Checked: <i>Nolan</i>	Date: <i>7/27/00</i>
Scale: <i>as noted</i>	Sheet: <i>7</i>

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SEWER APPURTENANCES DETAILS ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA



GENERAL NOTES PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TREWEC SERIES 80 HI-BUILD EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.).
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MODULARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 2 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO REVEAL LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 9" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.

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